

SERIAL NO. 09/910,952

Docket No. 1567.1015/JGM

IN THE CLAIMS:

Please **AMEND** elected claims 4, 8, 9, 11, 12, 29, and 30, and **AMEND** withdrawn claims 5-7, as follows:

1. (CANCELED)

2. (PREVIOUSLY PRESENTED) An electrolyte for a lithium-sulfur battery having a positive and negative electrode, comprising:

a first solvent having a dielectric constant that is greater than or equal to 20;

a second solvent having a viscosity that is less than or equal to 1.3; and

an electrolyte salt,

wherein:

said first solvent is at least one selected from a group consisting of methanol, hexamethyl phosphoramidate, ethanol, and isopropanol, and

the first solvent is roughly between 20% and 80% by weight of the electrolyte.

3. (WITHDRAWN) The electrolyte for the lithium-sulfur battery of claim 2, wherein said second solvent is at least one selected from a group consisting of methylethyl ketone, pyridine, methyl formate, n-propyl acetate, ethyl ether, methylethyl carbonate, toluene, fluorotoluene, benzene, fluorobenzene, p-dioxane, and cyclohexane.

4. (CURRENTLY AMENDED) A lithium-sulfur battery comprising:

a positive electrode including an active material including lithium;

a negative electrode having another active material including sulfur; and

an electrolyte disposed between the positive and negative electrodes, the electrolyte comprising:

a first solvent having a dielectric constant that is greater than or equal to 20;

a second solvent having a viscosity that is less than or equal to 1.3; and

an electrolyte salt,

wherein:

the first solvent is less than 30% and at or greater than 20% by weight of the electrolyte, and

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